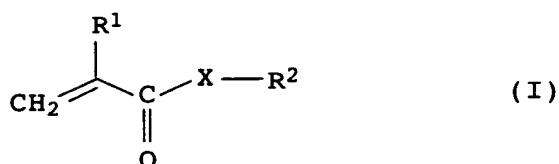


We claim:

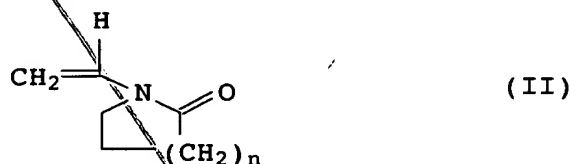
1. A cationic polymer obtainable by free-radical copolymerization of

(a) from 50 to 70% by weight of one or more monomers of the formula I



X = O, NR<sup>1</sup>,  
R<sup>1</sup> = H, C<sub>1</sub>-C<sub>8</sub>-alkyl,  
R<sup>2</sup> = tert-butyl,

(b) from 5 to 45% by weight of one or more monomers of the formula II



where n = 1 to 3,

(c) from 5 to 40% by weight of a monoethylenically unsaturated monomer having at least one amine-containing group,

(d) from 0 to 5% by weight of a polyalkylene oxide-containing silicone derivative,

where up to 40% by weight, based on (a), (b), (c) and (d), of the monomer (a) can be replaced by a monomer of the formula I where R<sup>2</sup> = C<sub>2</sub>-C<sub>22</sub>-alkyl.

2. A polymer as claimed in claim 1, obtainable by free-radical copolymerization of

(a) from 51 to 65% by weight of the monomer of the formula I,

(b) from 7 to 39% by weight of the monomer of the formula II,

(c) from 10 to 30% by weight of the amine-containing monomer.

3. A polymer as claimed in claim 1, wherein the monomer (a) is tert-butyl acrylate, N-tert-butylacrylamide and/or tert-butyl methacrylate.
- 5 4. A polymer as claimed in claim 1, wherein the monomer (b) is vinylpyrrolidone and/or vinylcaprolactam.
5. A polymer as claimed in claim 1, wherein the monomer (c) is dimethylaminoalkyl (meth)acrylate and/or dimethylaminoalkyl (meth)acrylamide.
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6. A polymer as claimed in claim 1, wherein the monomers of the formula I where  $R^2 = C_2-C_{22}$ -alkyl are N-butylacrylamide, N-octylacrylamide, lauryl (meth)acrylate or stearyl (meth)acrylate.
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7. The use of polymers as claimed in claim 1 to 6 for cosmetic preparations.
- 20 8. The use as claimed in claim 7 as setting polymers in hair spray, foam setting compositions, hair mousse, hair gel or shampoos.
9. A cosmetic preparation comprising a polymer as claimed in claim 1 in an amount of from 0.1 to 30% by weight, based on the preparation
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10. A cosmetic preparation as claimed in claim 9, wherein the polymer is partially or completely neutralized using a monohydric acid, preferably using a polyhydric acid or a polycarboxylic acid, or is quaternized using a quaternizing agent.
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11. A cosmetic preparation as claimed in claim 10, wherein the polymer is partially or completely neutralized using phosphoric acid or an acid mixture containing phosphoric acid.
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12. The use of polymers as claimed in <sup>claim 1</sup> ~~one of claims 1 to 6~~ having a glass transition temperature of  $> 25^\circ\text{C}$  and a K value of from 25 to 70, preferably from 35 to 50, for hair cosmetics.
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13. A hair cosmetic preparation comprising
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- Sup  
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cont.

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